**AMENDMENTS TO THE CLAIMS** 

This listing of claim will replace all prior versions and listings of claim in the application.

1. (currently amended) A tool system adapted to operate on a work piece, said tool

system comprising:

a first guide system providing a first guide line; and

a tool including:

an action component adapted to operate on said work piece by following the guide

line on the work piece,

a guide detector adapted to detect a position of said first guide line and provide first

guide position data corresponding to said position of said first guide, and

a location detector in communication with said guide detector to receive said first

guide position data, wherein said location detector is adapted to determine an orientation of

said action component relative to said guide line, based at least in part on said first guide

position data.

2. (original) The tool system of claim 1, wherein said location detector is adapted to

provide orientation information corresponding to said orientation of said action component.

3. (original) The tool system of claim 2, wherein said tool further includes:

a set of indicators in communication with said location detector to receive said orientation

information, wherein a state of each indicator in said set is set in response to said orientation

information.

4. (currently amended) The tool system of claim 3, wherein said first guide <u>line</u> extends

across a portion of said work piece and said orientation information received from said location

controller indicates whether said action component is oriented to be one of the following: in line with

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said first guide <u>line</u>, offset to a first side of said first guide <u>line</u>, or offset to a second side of said first

guide line.

5. (currently amended) The tool system of claim 4, wherein said set of indicators

includes:

a first indicator adapted to be asserted when said orientation information indicates said action

component is oriented to be in line with said first guide line,

a second indicator adapted to be asserted when said orientation information indicates said

component is oriented to be offset to a first side of said first guide line, and

a third indicator adapted to be asserted when said orientation information indicates said

component is oriented to be offset to a second side of said first guide line.

6. (original) The tool system of claim 5, wherein said first guide system is a laser

system and said first guide is a laser beam.

7. (original) The tool system of claim 1, wherein said orientation information indicates

whether a tool adjustment is needed.

8. (original) The tool system of claim 7, further including:

a component controller in communication with said location detector to receive said

orientation information and in communication with said action component to adjust said action

component in response to said orientation information.

9. (currently amended) The tool system of claim 8, wherein said first guide <u>line</u> extends

across a portion of said work piece and said orientation information received from said location

detector indicates whether said action component is oriented to be one of the following: in line with

said first guide line, offset to a first side of said first guide line, or offset to a second side of said first

guide line.

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10. (currently amended) The tool system of claim 9, wherein said component controller

is adapted to orient said action component to be in line with said first guide line in response to said

orientation information.

11. (currently amended) The tool system of claim 10, wherein said component controller

is adapted to orient said action component as follows:

if said orientation information indicates said action component is oriented to be in line with

said first guide line, said component controller maintains said orientation of said action component,

if said orientation information indicates said action component is oriented to be offset to said

first side of said first guide line, said component controller modifies said orientation of said action

component to be in line with said first guide line, and

if said orientation information indicates said action component is oriented to be offset to said

second side of said first guide line, said component controller modifies said orientation of said action

component to be in line with said first guide line.

12. (original) The tool system of claim 11, wherein said tool is a jigsaw, said action

component is a blade, and said component controller drives a motor coupled to said blade to orient

said blade in response to said orientation information.

13. (original) The tool system of claim 11, wherein said tool is a circular saw, said action

component is a blade, and said component controller is in communication with a set of pistons to

orient said blade in response to said orientation information.

14. (currently amended) The tool system of claim 11, wherein said first guide system is a

laser system and said first guide <u>line</u> is a laser beam.

15. (original) The tool system of claim 7, further including:

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a component controller in communication with said location detector to receive said

orientation information and in communication with said action component to set a state of said

action component in response to said orientation information.

16. (currently amended) The tool system of claim 15, wherein said first guide <u>line</u>

extends across said work piece and said orientation information received from said location detector

indicates whether said action component is oriented to be one of the following: in line with said first

guide line, offset to a first side of said first guide line, or offset to a second side of said first guide

<u>line</u>.

17. (currently amended) The tool system of claim 16, wherein said tool is a nail gun, said

action component is a nail firing mechanism, and said component controller is adapted to set said

state of said action component as follows:

if said orientation information indicates said action component is oriented to be in line with

said first guide line, said component controller disables said nail firing mechanism,

if said orientation information indicates said action component is oriented to be offset to said

first side of said first guide line, said component controller enables said nail firing mechanism, and

if said orientation information indicates said action component is oriented to be offset to said

second side of said first guide line, said component controller enables said nail firing mechanism.

18. (currently amended) The tool system of claim 17, wherein said first guide system is a

laser system and said first guide <u>line</u> is a laser beam.

19. (currently amended) The tool system of claim 1, further including:

a second guide <u>line</u> system providing a second guide <u>line</u>, wherein:

said guide detector is adapted to detect a position of said second guide <u>line</u> and provide

second guide <u>line</u> position data corresponding to said position of said second guide <u>line</u>, and

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said location detector is in communication with said guide detector to receive said second

guide line position data, wherein said location detector is adapted to determine an orientation of said

action component, based at least in part on said first guide position data and said second guide line

position data.

20. (original) The tool system of claim 19 wherein said location detector is adapted to

provide orientation information corresponding to said orientation of said action component.

21. (original) The tool system of claim 20, wherein said orientation information indicates

whether an adjustment to said action component is needed.

22. (original) The tool system of claim 21, further including:

a component controller in communication with said location detector to receive said

orientation information and in communication with said action component to adjust said action

component in response to said orientation information.

23. (original) The tool system of claim 22, wherein said tool is a router, said action

component is a cutting head, and said component controller is adapted to adjust a vertical

displacement of said cutting head in response to said orientation information.

24. (original) The tool system of claim 22, wherein said tool is a nail gun, said action

component is a nail firing mechanism, and said component controller is adapted to adjust a state of

said action component as follows:

if said orientation information indicates said action component is oriented in line with a

location on said work piece where a nail is to be fired, said component controller enables said nail

firing mechanism, and

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if said orientation information indicates said action component is not oriented in line with a

location on said work piece where a nail is to be fired, said component controller disables said nail

firing mechanism.

25. (currently amended) The tool system of claim 20, wherein said first guide system is a

first laser system, said first guide line is a first laser beam, said second guide line system is a second

laser system, and said second guide <u>line</u> is a second laser beam.

26. (currently amended) A tool adapted to operate on a work piece, said tool comprising:

an action component adapted to operate piece on said work piece relative to a guide line,

a guide detector adapted to detect a position of a first guide line and provide first guide

position data corresponding to said position of said first guide line; and

a location detector in communication with said guide detector to receive said first guide

position data, wherein said location detector is adapted to determine an orientation of said action

component relative to said first guide line, based at least in part on said first guide position data.

27. (original) The tool of claim 26, wherein said location detector is adapted to provide

orientation information corresponding to said orientation of said action component.

28. (original) The tool system of claim 27, wherein said tool further includes:

a set of indicators in communication with said location detector to receive said orientation

information, wherein a state of each indicator in said set is set in response to said orientation

information.

29. (currently amended) The tool of claim 28, wherein said first guide <u>line</u> extends across

a portion of said work piece and said orientation information received from said location controller

indicates whether said action component is oriented to be one of the following: in line with said first

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guide <u>line</u>, offset to a first side of said first guide <u>line</u>, or offset to a second side of said first guide

line.

30. (currently amended) The tool of claim 29, wherein said set of indicators includes:

a first indicator adapted to be asserted when said orientation information indicates said action

component is oriented to be in line with said first guide line,

a second indicator adapted to be asserted when said orientation information indicates said

component is oriented to be offset to a first side of said first guide line, and

a third indicator adapted to be asserted when said orientation information indicates said

component is oriented to be offset to a second side of said first guide line.

31. (currently amended) The tool of claim 26, wherein said first guide <u>line</u> is a laser

beam and said guide detector is a photo diode detector array.

32. (original) The tool of claim 26, wherein said orientation information indicates

whether a tool adjustment is needed.

33. (original) The tool of claim 32, further including:

a component controller in communication with said location detector to receive said

orientation information and in communication with said action component to adjust said action

component in response to said orientation information.

34. (currently amended) The tool of claim 33, wherein said first guide line extends across

a portion of said work piece and said orientation information received from said location detector

indicates whether said action component is oriented to be one of the following: in line with said first

guide line, offset to a first side of said first guide line, or offset to a second side of said first guide

<u>line</u>.

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35. (currently amended) The tool of claim 34, wherein said component controller is

adapted to orient said action component to be in line with said portion of said first guide line in

response to said orientation information.

36. (currently amended) The tool of claim 35, wherein said component controller is

adapted to orient said action component as follows:

if said orientation information indicates said action component is oriented to be in line with

said first guide line, said component controller maintains said orientation of said action component,

if said orientation information indicates said action component is oriented to be offset to said

first side of said first guide line, said component controller modifies said orientation of said action

component to be in line with said first guide line, and

if said orientation information indicates said action component is oriented to be offset to said

second side of said first guide <u>line</u>, said component controller modifies said orientation of said action

component to be in line with said first guide line.

37. (original) The tool of claim 36, wherein said tool is a jigsaw, said action component

is a blade, and said component controller drives a motor coupled to said blade to orient said blade in

response to said orientation information.

38. (original) The tool of claim 36, wherein said tool is a circular saw, said action

component is a blade, and said component controller is in communication with a set of pistons to

orient said blade in response to said orientation information.

39. (currently amended) The tool of claim 32, further including:

a component controller in communication with said location detector to receive said

orientation information and in communication with said action component to adjust said action

component in response to said orientation information.

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40. (currently amended) The tool of claim 39, wherein said first guide <u>line</u> extends across

a portion of said work piece and said orientation information received from said location detector

indicates whether said action component is oriented to be one of the following: in line with said first

guide line, offset to a first side of said first guide line, or offset to a second side of said first guide

line.

41. (currently amended) The tool of claim 40, wherein said tool is a nail gun, said action

component is a nail firing mechanism, and said component controller is adapted to adjust said action

component as follows:

if said orientation information indicates said action component is oriented to be in line with

said first guide line, said component controller disables said nail firing mechanism,

if said orientation information indicates said action component is oriented to be offset to said

first side of said first guide line, said component controller enables said nail firing mechanism, and

if said orientation information indicates said action component is oriented to be offset to said

second side of said first guide line, said component controller enables said nail firing mechanism.

42. (currently amended) The tool of claim 26, wherein said guide detector is further

adapted to detect a position of a second guide line and provide second guide line position data

corresponding to said position of said second guide line,

wherein said location detector is in communication with said guide detector to receive said

second guide line position data, wherein said location detector is adapted to determine an orientation

of said action component, based at least in part on said first guide line position data and said second

guide line position data.

43. (original) The tool of claim 42 wherein said location detector is adapted to provide

orientation information corresponding to said orientation of said action component.

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44. (original) The tool of claim 43, wherein said orientation information indicates

whether an adjustment to said action component is needed.

45. (original) The tool of claim 44, further including:

a component controller in communication with said location detector to receive said

orientation information and in communication with said action component to adjust said action

component in response to said orientation information.

46. (original) The tool of claim 45, wherein said tool is a router, said action component is

a cutting head, and said component controller is adapted to adjust a vertical displacement of said

cutting head in response to said orientation information.

47. (original) The tool of claim 45, wherein said tool is a nail gun, said action component

is a nail firing mechanism, and said component controller is adapted to adjust said action component

as follows:

if said orientation information indicates said action component is oriented in line with a

location on said work piece where a nail is to be fired, said component controller enables said nail

firing mechanism, and

if said orientation information indicates said action component is not oriented in line with a

location on said work piece where a nail is to be fired, said component controller disables said nail

firing mechanism.

48. (currently amended) The tool of claim 42, wherein said first guide <u>line</u> is a first laser

beam and said a second guide line is a second laser beam.

49. (currently amended) The tool of claim 42, wherein said first guide line is a first guide

line wire and said a second guide line is a second guide line wire.

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50. (currently amended) A tool adapted to operate on a work piece, said tool comprising:

an action component adapted to operate on said work piece along a line,

a location detector adapted to determine an orientation of said component relative to the line,

based at least in part on a position of a set of one or more guides lines, and provide orientation

information corresponding to said orientation; and

a component controller in communication with said location detector to receive said

orientation information and in communication with said action component to adjust said action

component in response to said orientation information.

51. (original) The tool of claim 50, wherein said tool further includes:

a set of indicators in communication with said location detector to receive said orientation

information, wherein a state of each indicator in said set is set in response to said orientation

information.

52. (original) The tool of claim 50, wherein said orientation information indicates

whether an action component adjustment is needed.

53. (original) The tool of claim 52, wherein said component controller is in

communication with said action component to orient said action component in response to said

orientation information.

54. (original) The tool of claim 52, wherein said component controller is in

communication with said action component to change a state of said action component in response to

said orientation information.

55. (original) The tool of claim 52, wherein said tool is a jigsaw, said action component

is a blade, and said component controller drives a motor coupled to said blade to orient said blade in

response to said orientation information.

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56. (original) The tool of claim 52, wherein said tool is a circular saw, said action

component is a blade, and said component controller orients said blade in response to said

orientation information.

57. (original) The tool of claim 56, wherein said component controller is in

communication with a set of pistons to orient said blade in response to said orientation information.

58. (original) The tool of claim 52, wherein said tool is a router and said action

component is a cutting head.

59. (original) The tool of claim 58, wherein said component controller is adapted to

adjust a vertical displacement of said cutting head in response to said orientation information.

60. (original) The tool of claim 52, wherein said tool is a nail gun and said action

component is a nail firing mechanism.

61. (original) The tool of claim 60, wherein said component controller is adapted to set a

state of said nail firing mechanism as follows:

if said orientation information indicates said nail firing mechanism is oriented in line with a

location on said work piece where a nail is to be fired, said component controller enables said nail

firing mechanism, and

if said orientation information indicates said nail firing mechanism is not oriented in line with

a location on said work piece where a nail is to be fired, said component controller disables said nail

firing mechanism.

62. (original) The tool of claim 50, wherein said set of one or more guides includes at

least one laser beam.

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63. (original) The tool of claim 50, wherein said set of one or more guides includes at

least one guide wire.

64. (original) The tool of claim 50, wherein said set of one or more guides includes a

track ball.

65. (currently amended) A method for identifying the orientation of a tool on a work

piece, wherein said tool includes an action component for operating on said work piece along a line,

said method including the steps of:

(a) detecting position data for one or more guides guide lines;

(b) determining an orientation of said tool relative to said line based at least in part on

said position data detected in said step (a); and

(c) adjusting said tool in response to said orientation determined in said step (b).

66. (original) The method of claim 65, wherein said step (c) includes the step of:

(1) asserting at least one indicator.

67. (original) The method of claim 66, wherein said at least one indicator identifies a

direction for steering said tool.

68. (original) The method of claim 65, wherein said step (c) includes the step of:

(1) adjusting an orientation of said component.

69. (original) The method of claim 65, wherein said step (c) includes the step of:

(1) adjusting a state of said component.

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70. (original) The method of claim 65, wherein said one or more guides includes at least

one laser beam.

71. (currently amended) A tool adapted to operate on a work piece, said tool comprising:

an action component adapted to operate on said work piece along a line;

one or more storage devices; and

one or more processors processing devices in communication with said one or more storage devices

and said action component, said one or more processors processing devices including code

instructing the devices to perform a method comprising the steps of:

(a) determining an orientation of said tool based at least in part on a position of a set of

one or more guides lines; and

(b) adjusting said tool in response to said orientation determined in said step (ea).

72. (original) The tool of claim 71, wherein said step (b) includes the step of:

(1) asserting at least one indicator.

73. (original) The tool of claim 71, wherein said step (b) includes the step of:

(1) adjusting an orientation of said component.

74. (original) The tool of claim 71, wherein said step (b) includes the step of:

(1) adjusting a state of said component.

75. (original) The tool of claim 71, wherein said tool is a jigsaw and said action

component is a blade, wherein said step (b) includes the step of:

(1) adjusting an orientation of said blade.

76. (original) The tool of claim 71, wherein said tool is a circular saw and said action

component is a blade, wherein said step (b) includes the step of:

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(1) adjusting an orientation of said blade.

77. (original) The tool of claim 71, wherein said tool is a router and said action

component is a cutting head, wherein said step (b) includes the step of:

(1) adjust a vertical displacement of said cutting head.

78. (original) The tool of claim 71, wherein said tool is a nail gun and said action

component is a nail firing mechanism, wherein said step (b) includes the steps of:

(1) enabling said nail firing mechanism if said orientation corresponds to said nail firing

mechanism being in line with a location on said work piece where a nail is to be fired; and

(2) disabling said nail firing mechanism if said orientation corresponds to said nail firing

mechanism not being in line with a location on said work piece where a nail is to be fired.

79. (original) The tool of claim 71, wherein said one or more guides includes at least one

laser beam.

80. (currently amended) A tool adapted to operate on a work piece along a line, said tool

comprising:

means for detecting position data for one or more guides guide lines;

means for determining an orientation of said tool based at least in part on said position data;

and

means for adjusting said tool relative to said guide lines in response to said orientation

determined by said means for determining.

81. (original) The tool of claim 80, wherein said tool includes:

a set of one or more indicators; and

means for asserting at least one indicator in said set of one or more indicators in response to

said orientation of said tool.

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- 82. (original) The tool of claim 80, wherein said means for adjusting includes: means for adjusting an orientation of said component in response to said orientation determined by said means for determining.
- 83. (original) The tool of claim 80, wherein said means for adjusting includes: means for adjusting a state of said component in response to said orientation determined by said means for determining.
- 84. (original) The tool of claim 80, wherein said one or more guides includes at least one laser beam.